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RAW SEQUENCE LISTING DATE: 11/21/2000
 PATENT APPLICATION: US/09/489,667A TIME: 19:10:33

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5 <120> TITLE OF INVENTION: CLOSTRIDIAL TOXIN DERIVATIVES AND METHODS FOR TREATING
6   PAIN
8 <130> FILE REFERENCE: botulinum-subP/pain/D2875
10 <140> CURRENT APPLICATION NUMBER: 09/489,667A
11 <141> CURRENT FILING DATE: 2000-01-19
13 <160> NUMBER OF SEQ ID NOS: 14
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18 <211> LENGTH: 11
19 <212> TYPE: PRT
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23 <221> NAME/KEY: MOD_RES
24 <222> LOCATION: (11)
25 <223> OTHER INFORMATION: AMIDATION
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment is
29   substance P and is very well known in the art.
31 <220> FEATURE:
32 <223> OTHER INFORMATION: The Met at position 11 is Met-amide.
34 <300> PUBLICATION INFORMATION:
W--> 35 <310> PATENT DOCUMENT NUMBER: US 08/631,434
36 <311> PATENT FILING DATE: 1996-04-12
37 <312> PUBLICATION DATE: 1999-04-06
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47 <213> ORGANISM: Unknown Organism
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50 <223> OTHER INFORMATION: Description of Unknown Organism: Precursor to
51   substance P, which is very well known in the art.
53 <300> PUBLICATION INFORMATION:
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55 <311> PATENT FILING DATE: 1996-04-12
56 <312> PUBLICATION DATE: 1999-04-06
58 <300> PUBLICATION INFORMATION:
59 <301> AUTHORS: Shimonaka,
60   et al.,
61 <303> JOURNAL: J. Neurochem.
62 <304> VOLUME: 59
63 <306> PAGES: 81-92
64 <307> DATE: JUL-1992
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68 1 5 10

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72 <211> LENGTH: 13

73 <212> TYPE: PRT

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76 <220> FEATURE:

77 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment is

78 a precursor to substance P and is very well known

79 in the art.

81 <300> PUBLICATION INFORMATION:

W--> 82 <310> PATENT DOCUMENT NUMBER: US 08/631,434

83 <311> PATENT FILING DATE: 1996-04-12

84 <312> PUBLICATION DATE: 1999-04-06

86 <300> PUBLICATION INFORMATION:

87 <301> AUTHORS: Shimonaka,

88 et al.,

89 <303> JOURNAL: J. Neurochem.

90 <304> VOLUME: 59

91 <306> PAGES: 81-92

92 <307> DATE: JUL-1992

94 <400> SEQUENCE: 3

95 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys

96 1 5 10

99 <210> SEQ ID NO: 4

100 <211> LENGTH: 14

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104 <220> FEATURE:

105 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment is a

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107 the art.

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112 <312> PUBLICATION DATE: 1999-04-06

114 <300> PUBLICATION INFORMATION:

115 <301> AUTHORS: Shimonaka,

116 et al.,

117 <303> JOURNAL: J. Neurochem.

118 <304> VOLUME: 59

119 <306> PAGES: 81-92

120 <307> DATE: JUL-1992

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123 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Arg

124 1 5 10

127 <210> SEQ ID NO: 5

128 <211> LENGTH: 12

129 <212> TYPE: PRT

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132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence: This fragment
134     is a carboxy-ester synthetic precursor to
135     substance P.
137 <220> FEATURE:
138 <223> OTHER INFORMATION: The Gly at the carboxy terminal (Gly at position
139     12) is methylated.
141 <300> PUBLICATION INFORMATION:
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143 <311> PATENT FILING DATE: 1996-04-12
144 <312> PUBLICATION DATE: 1999-04-06
146 <300> PUBLICATION INFORMATION:
147 <301> AUTHORS: Lee,
148     et al.,
149 <303> JOURNAL: Eur. J. Biochem.
150 <304> VOLUME: 114
151 <306> PAGES: 315-327
152 <307> DATE: FEB-1981
154 <300> PUBLICATION INFORMATION:
155 <301> AUTHORS: Pernow, B.
156 <303> JOURNAL: Pharmacol. Rev.
157 <304> VOLUME: 35
158 <306> PAGES: 86-138
159 <307> DATE: JUN-1983
161 <300> PUBLICATION INFORMATION:
162 <301> AUTHORS: Regoli,
163     et al.,
164 <303> JOURNAL: TIPS
165 <304> VOLUME: 9
166 <306> PAGES: 290-295
167 <307> DATE: AUG-1988
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179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: This is a
181     carboxy ester synthetic precursor to substance P.
183 <220> FEATURE:
184 <223> OTHER INFORMATION: The Lys at the carboxy-terminus (Lys at position
185     13) is methylated.
187 <300> PUBLICATION INFORMATION:
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189 <311> PATENT FILING DATE: 1996-04-12
190 <312> PUBLICATION DATE: 1999-04-06

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192 <300> PUBLICATION INFORMATION:
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 195 <303> JOURNAL: Eur. J. Biochem.
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 200 <300> PUBLICATION INFORMATION:
 201 <301> AUTHORS: Pernow, B.
 202 <303> JOURNAL: Pharmacol. Rev.
 203 <304> VOLUME: 35
 204 <306> PAGES: 86-138
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 213 <307> DATE: AUG-1988
 215 <400> SEQUENCE: 6
 216 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys
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 229 <220> FEATURE:
 230 <223> OTHER INFORMATION: The Arg at the carboxy-terminus (Arg at position
 231 14) is methylated.
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 235 <311> PATENT FILING DATE: 1996-04-12
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 238 <300> PUBLICATION INFORMATION:
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 240 et al.,
 241 <303> JOURNAL: Eur. J. Biochem.
 242 <304> VOLUME: 114
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 247 <301> AUTHORS: Pernow, B.
 248 <303> JOURNAL: Pharmacol. Rev.
 249 <304> VOLUME: 35
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255 et al.,
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258 <306> PAGES: 290-295
259 <307> DATE: AUG-1988
261 <400> SEQUENCE: 7
262 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Arg
263 1 5 10
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267 <211> LENGTH: 12
268 <212> TYPE: PRT
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271 <220> FEATURE:
272 <223> OTHER INFORMATION: Description of Artificial Sequence: This is a
273 carboxy ester synthetic precursor to substance P.
275 <220> FEATURE:
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277 12) is ethylated.
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307 <400> SEQUENCE: 8
308 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly
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VERIFICATION SUMMARY DATE: 11/21/2000
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